STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION

PERMIT BOOK

PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: 112006-007 Project Number: 2006-08-008

Owner: Doss & Harper Stone Co., Inc. PORT-0497

Owner's Address: P. O. Box 888, West Plains, MO 65775

Installation Name: Doss & Harper Stone Co., Inc. Portable ElJay Cone Plant

Installation Address: Route 17 South, Houston, MO 65483

Location Information: Texas County, S17, T30N, R9W

Application for Authority to Construct was made for:

The modification of an existing portable rock-crushing plant. The portable rock-crushing plant has a maximum hourly design rate (MHDR) of 250 tons per hour (tph), but can only process 200 tph. It will be inserted into a stationary plant with an MHDR of 200 tph to act as a secondary screening and crushing operation for the stationary plant. Best Management Practices will be used to control fugitive emissions from haul roads and storage piles. This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

☐ Standard Conditions (on reverse) are applicable to this permit.

☑ Standard Conditions (on reverse) and Special Conditions (listed as attachments starting on page 2) are applicable to this permit.

NOV - 8 2006

EFFECTIVE DATE

DIRECTOR OR DESIGNEE
DEPARTMENT OF NATURAL RESOURCES

MO 780-1204 (1-03)

STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available not more than 60 days but at least 30 days in advance of this date. Also, you must notify the Department of Natural Resources Regional Office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources' personnel upon request.

You may appeal this permit or any of the listed Special Conditions as provided in RSMo 643.075. If you choose to appeal, the Air Pollution Control Program must receive your written declaration within 30 days of receipt of this permit.

If you choose not to appeal, this certificate, the project review, your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant source(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Department of Natural Resources has established the Outreach and Assistance Center to help in completing future applications or fielding complaints about the permitting process. You are invited to contact them at 1-800-361-4827 or (573) 526-6627, or in writing addressed to Outreach and Assistance Center, P.O. Box 176, Jefferson City, MO 65102-0176.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit at (573) 751-4817. If you prefer to write, please address your correspondence to the Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention Construction Permit Unit.

2006-08-008
PORT-0497

Doss & Harper Stone Co., Inc.

P. O. Box 888, West Plains, MO 65775

Doss & Harper Stone Co., Inc. Portable ElJay Cone Plant

Route 17 South, Houston, MO 65483

Texas County, S17, T30N, R9W

The modification of an existing portable rock-crushing plant. The portable rock-crushing plant has a maximum hourly design rate (MHDR) of 250 tons per hour (tph), but can only process 200 tph. It will be inserted into a stationary plant with an MHDR of 200 tph to act as a secondary screening and crushing operation for the stationary plant. Best Management Practices will be used to control fugitive emissions from haul roads and storage piles. This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

GENERAL SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075); by the Missouri Rules listed in Title 10, Division 10 of the Codes of State Regulations (specifically 10 CSR 10-6.060); by 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority"; by 10 CSR 10-6.010 "Ambient Air Quality Standards" and 10 CSR 10-6.060 subsections (5)(D) and (6)(A); and by control measures requested by the applicant, in their permit application, to reduce the amount of air pollutants being emitted, in accordance with 10 CSR 10-6.060 paragraph (6)(E)3. Furthermore, one or more of the Subparts of 40 CFR Part 60, New Source Performance Standards (NSPS), applies to this installation.

1. Portable Equipment Identification Requirement
   To assure that each component is properly identified as being a part of this portable rock-crushing plant (PORT-0497), Doss & Harper Stone Co., Inc. shall provide and maintain suitable, easily read permanent markings on each component of the plant. These markings shall be the equipment's serial number or a company assigned identification number that uniquely identifies the individual component. These identification numbers must be submitted to the Air Pollution Control Program no later than 15 days after start-up of the portable rock-crushing plant.

2. Relocation of Portable Rock-Crushing Plant
   A. If this portable rock-crushing plant moves from the initial site reviewed in this permit (Houston Quarry, Site ID No: 215-P053), then the portable rock-crushing plant shall not be operated at any site location longer than 24 consecutive months without an intervening relocation.
   B. A complete "Portable Source Relocation Request" application must be submitted to the Air Pollution Control Program prior to any relocation of this portable rock-crushing plant.
      1.) If the portable rock-crushing plant is moving to a site previously permitted, and if there are no other new plants at the site, then the application must be received by the Air Pollution Control Program at least seven (7) days prior to the relocation.
      2.) If the portable rock-crushing plant is moving to a new site, or if there are other plants or equipment at the site that have not been evaluated for concurrent operation, then the application must be received by the Air Pollution Control Program at least twenty-one (21) days prior to the relocation. The application must include written notification of any concurrently operating plants.

3. Operating Permit Applicability
   If this portable rock-crushing plant does not move from the initial site (Houston Quarry, Site ID No: 215-P053) within 24 consecutive months, then Doss & Harper Stone Co., Inc. shall submit an operating permit application. The Air Pollution Control Program must receive this application no later than 30 days after the exceedance of the 24 months.

4. Record Keeping Requirement
   The operator(s) shall maintain all records required by this permit for not less than five (5) years and shall make them available to any Missouri Department of Natural Resources' personnel upon request.

5. Reporting Requirement
   The operator(s) shall report to the Air Pollution Control Program (APCP) Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedances of the limitations imposed by this permit.

6. Superseding Condition
   The conditions of this permit supersede all special conditions found in the previously issued construction permit(s) (092005-020) from the Air Pollution Control Program.

SITE-SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

Site ID No.: 215-P053
Site Name: Houston Quarry
Site Address: Route 17 South, Houston, MO 65483
Site County: Texas County, S17, T30N, R9W

1. Best Management Practices
   Doss & Harper Stone Co., Inc. Portable ElJay Cone Plant shall control fugitive emissions from all of the haul roads and stockpiles at this site by performing *Best Management Practices*, which include the usage of paving, chemical dust suppressants, or documented watering. These practices are defined in Attachment AA.

2. National Ambient Air Quality Standards (NAAQS) Limitation for Particulate Matter Less Than Ten Microns in Diameter (PM_{10})
   A. The operator(s) for Doss & Harper Stone Co., Inc. Portable ElJay Cone Plant (PORT-0497) shall ensure, while operating at this site, that the ambient impact of PM_{10} at or beyond the nearest property boundary does not exceed 150 $\mu g/m^3$ in any 24-hour period, in accordance with the Federal NAAQS requirements (40 CFR 50.6).
   B. The total daily ambient impact of PM_{10} at this site shall include the combined impact of the portable rock-crushing plant and any ambient background concentration from installations or equipment located on the same site as the portable rock-crushing plant.
   C. To demonstrate compliance during concurrent operations with other asphalt, concrete, or rock-crushing plants, the operator(s) shall maintain a daily record of material processed.
      1.) During concurrent, same owner, operations, use Attachment A, *Daily Ambient PM_{10} Impact Tracking Record*, or equivalent form(s), for this purpose.
      2.) During concurrent, same **AND** separate owner, operation, use Attachment B, *Daily Ambient PM_{10} Impact Tracking Record*, or equivalent form(s), for this purpose.

3. Restriction on Process Configuration of Primary Emission Point(s)
   The maximum hourly design rate of the plant is equal to the sum of the design rate(s) of the primary emission point(s). Doss & Harper Stone Co., Inc. Portable ElJay Cone Plant, PORT-0497, has designated the following unit(s) as the primary emission point(s) of the portable rock-crushing plant: primary screen (CO-7). Bypassing the primary emission point(s) for processing is prohibited.

4. Restriction on the Use of Diesel Engine(s)/Generator(s)
   No diesel engine(s)/generator(s) shall be used by the portable rock-crushing plant. If, after the issuance of this permit, the company decides that it would like the option of using diesel engine(s)/generator(s), a new permit review will be required.

5. Restriction on Minimum Distance to Nearest Property Boundary
   The primary emission point of the portable rock-crushing plant, which is the primary screen (CO-7), shall be located at least 1,500 feet from the nearest property boundary whenever it is operating at this site.

TECHNICAL REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT

PROJECT DESCRIPTION

This permit review is conducted to allow PORT-0497 to operate concurrently with multiple asphalt, concrete, or rock-crushing plants at Houston Quarry, 215-P053. When located at Houston Quarry, PORT-0497 will be inserted into a stationary rock-crushing plant, owned by Doss & Harper Stone Co., Inc., already operating at the site. It will act as a secondary screening and crushing operation for the stationary plant. The screen (EP-07) is considered the primary unit for PORT-0497 because it serves as the bottleneck in the process. Rocks from the crusher of the stationary plant will first be processed by the screen (CO-7). The oversized rocks that cannot pass through the screen will be sent to the cone crusher (CO-6) before they are recycled back to the screen. The smaller rocks that pass through the screen will either be shipped out as a final product or be further processed by the screens of the stationary rock-crushing plant. The screen of PORT-0497 (CO-7) has a maximum hourly design rate (MHDR) of 250 tons per hour (tph), but the actual processing rate of the screen will be limited by the stationary rock-crushing plant, which has an MHDR of 200 tons per hour.

PORT-0497 is permitted to operate under the following two (2) scenarios.

- Concurrent, Same Owner: Concurrent operations with plants owned by Doss & Harper Stone Co., Inc.
- Concurrent, Same and Separate Owners: Concurrent operations with plants owned by Doss & Harper Stone Co., Inc. **AND** plants owned by other companies operating on the property.

The concurrently operating plants must be asphalt, concrete, or rock-crushing plants. Since there will always be a stationary rock-crushing plant owned by Doss & Harper Stone Co., Inc. operating at this site, there is no need to permit PORT-0497 for solitary operations. There is also no need to permit PORT-0497 for concurrent operations with plants owned by other companies in the absence of plants owned by Doss & Harper Stone Co., Inc.. If Doss & Harper Stone Co. decides to remove the stationary rock-crushing plant from the site, then a new permit review will be required for PORT-0497 to allow PORT-0497 to continue operating at Houston Quarry.

The emission points are listed in the attached spreadsheet summary. This installation is not on the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2]. The installation is located in Texas County, an attainment area for all criteria air pollutants.

Table 1. Other Permits Issued for PORT-0497

Permit Number	Completed	Description
022004-005	2/17/2004	New portable plant permit.
092005-020	9/30/2005	Allow concurrent operations and BMPs.

EMISSIONS EVALUATION

Criteria air pollutants will be emitted from this operation. The main air pollutant of concern is PM_{10}. The potential emissions were calculated from the maximum hourly design rate (MHDR) of the equipment, appropriate emission factors, control device efficiencies, and the limiting operating hours at MHDR. The sources of the emission factors and control efficiencies are listed in the section “Permit Documents”. Based on the conditioned potential emissions, the operation is considered a minor source under 10 CSR 10-6.060 section (6).

The portable rock-crushing plant has an annual emission limit of less than 50 tons of PM_{10} in any 12-month period. A composite PM_{10} emission factor was developed for the portable rock-crushing plant. The composite emission factor is incorporated into the monthly record keeping table, Attachment B. If the conditioned potential emissions of PM_{10} were 50 tons per year or greater, then the owner would be required to submit dispersion modeling results.

Table 2: Emissions Summary (tons per year)

Air Pollutant	Regulatory *De Minimis* Levels	*Existing Potential Emissions	Existing Actual Emissions (2005 EIQ)	Potential Emissions of the Application	**New Installation Conditioned Potential	Emission Factor (lb/ton)
PM_{10}	15.0	20.15	0.12	20.15	20.15	N/A
SOx	40.0	N/A	N/A	N/A	N/A	N/A
NOx	40.0	N/A	N/A	N/A	N/A	N/A
VOC	40.0	N/A	N/A	N/A	N/A	N/A
CO	100.0	N/A	N/A	N/A	N/A	N/A
HAPs	10.0/25.0	N/A	N/A	N/A	N/A	N/A

Note: N/A = Not Applicable ** Conditioned potential based on daily production limit from ambient impact analysis.

AMBIENT AIR QUALITY IMPACT ANALYSIS

Screening tools were used to evaluate the ambient air impact of the hourly emissions from this operation. The ambient impact was evaluated at a distance of 1,500 feet to the nearest property boundary. The ambient impact at this site shall not exceed the National Ambient Air Quality Standard (NAAQS) of 150 $\mu g/m^3$ of PM_{10} at or beyond the nearest property boundary in any single 24-hour period. For sources agreeing to use Best Management Practices (BMPs), as defined in Attachment AA, haul roads and stockpiles are not modeled with screening tools. Instead, they are addressed as a background level of 20 $\mu g/m^3$ of PM_{10}. To ensure conformity with NAAQS, the remaining process emissions are limited to an impact of less than 130 $\mu g/m^3$ of PM_{10} at or beyond the nearest property boundary.

The rock-crushing plant is permitted to operate under two (2) scenarios and the daily ambient PM_{10} impact record keeping requirements for each scenarios are given below.

- Concurrent, Same Owner: The rock-crushing plant must track its daily ambient PM_{10} impact and the daily ambient PM_{10} impact of all concurrently operating plants owned by Doss & Harper Co., Inc.. Screening tools were used to develop an ambient impact factor for the stationary rock-crushing plant and incorporated into the daily record keeping table, Attachment A, for use in calculating PM_{10} ambient impact. The daily ambient PM_{10} impact from the concurrently operating plants can be obtained from the operators of these plants. The combined daily ambient PM_{10} impact from all plants shall be below the limit of 130 $\mu g/m^3$ at or beyond the nearest property boundary.
- Concurrent, Same and Separate Owners: The rock-crushing plant must track its daily ambient PM_{10} impact and the daily ambient PM_{10} impact of all concurrently operating plants owned by Doss & Harper Co., Inc.. Screening tools were used to develop an ambient impact factor for the stationary rock-crushing plant and incorporated into the daily record keeping table, Attachment B, for use in calculating PM_{10} ambient impact. The daily ambient PM_{10} impact from the concurrently operating plants owned by Doss & Harper Co., Inc. can be obtained from the operators of these plants. The combined daily ambient PM_{10} impact from all plants owned by Doss & Harper Co., Inc. shall be limited to 40 $\mu g/m^3$ at or beyond the nearest property boundary. The plants not owned by Doss & Harper Co., Inc. shall be allowed the remaining 90 $\mu g/m^3$.

Table 3: Ambient Air Quality Impact Analysis of PM_{10}, 24-Hour Averaging Time

Operation	Ambient Impact Factor ($\mu g/m^3$ton)	Modeled Impact ($\mu g/m^3$)	*Background ($\mu g/m^3$)	NAAQS ($\mu g/m^3$)	Daily Production Limit (tons)
1. Concurrent, Same Owner	0.0130	**	20.00	150.00	**
2. Concurrent, Same and Separate Owners	0.0128	**	110.00	150.00	**

* Background PM_{10} level of 20.00 $\mu g/m^3$ from haul roads and stockpiles and 90.00 $\mu g/m^3$ from the operation of asphalt, concrete, or rock-crushing plants owned by other companies.

** The operator(s) must balance production among concurrently operating plants, with the ambient impact factors for each, such that NAAQS is not exceeded. Ambient impact of concurrently operating plants owned by Doss & Harper Stone Co., Inc. can be obtained from the operator(s) of these plant(s).

APPLICABLE REQUIREMENTS

The owner is subject to compliance with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements.

- *Submission of Emission Data, Emission Fees and Process Information,* 10 CSR 10-6.110
- *Operating Permits*, 10 CSR 10-6.065
- If this portable rock-crushing plant remains at the initial site reviewed in this permit longer than 24 consecutive months, then the owner shall submit an Operating Permit Application. The Air Pollution Control Program must receive this application no later than 30 days after the exceedance of 24 months.
- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, 10 CSR 10-6.170
- *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-6.220
- *Restriction of Emission of Odors*, 10 CSR 10-3.090
- *Restriction of Emission of Particulate Matter From Industrial Processes*, 10 CSR 10-6.400
- *Restriction of Emission of Sulfur Compounds*, 10 CSR 10-6.260
- 40 CFR Part 60 Subpart "OOO", *Standards of Performance for Nonmetallic Mineral Processing Plants*, of the New Source Performance Standards (NSPS)
- The National Emission Standards for Hazardous Air Pollutants (NESHAPs) and the currently promulgated Maximum Achievable Control Technology (MACT) regulations do not apply to the proposed equipment.

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, I recommend this permit be granted with special conditions.

Chia-Wei Young
Environmental Engineer

Date

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, designating Doss & Harper Stone Co., Inc. as the owner and operator of the installation.
- Environmental Protection Agency (EPA) AP-42, *Compilation of Air Pollutant Emission Factors; Volume I, Stationary Point and Area Sources, Fifth Edition.*
- Noyes Data Corp. book, Orlemann, et al.1983, *Fugitive Dust Control*.
- EPA Factor Information Retrieval (FIRE) Version 6.21.
- Spreadsheet calculations of potential-to-emit and ambient impact.
- Southeast Regional Office Site Survey.
- Best Management Practices.

Attachment A: Daily Ambient PM_{10} Impact Tracking Record
Doss & Harper Stone Co., Inc. Portable ElJay Cone Plant, PORT-0497 – Portable Rock-Crushing Plant
Concurrent, Same Owner, Operation

Project Number: 2006-08-008
County, CSTR: Texas County (S17, T30N, R9W)
Primary Unit Size: 250 tph
Distance to Nearest Property Boundary: 1,500 feet

This sheet covers the period from _____ to _____ (Month, Day, Year) *(Copy this sheet as needed.)*

Date	Doss & Harper Stone Co., Inc. Portable ElJay Cone Plant PORT-0497 Project # 2006-08-008			Plant Name: Plant ID: Permit #:	Plant Name: Plant ID: Permit #:	Plant Name: Plant ID: Permit #:		
	Daily Production (tons)	Ambient Impact Factor ($\mu g/m^3$ton)	[1]Daily PM_{10} Impact ($\mu g/m^3$)	[2]Daily PM_{10} Impact ($\mu g/m^3$)	[2]Daily PM_{10} Impact ($\mu g/m^3$)	[2]Daily PM_{10} Impact ($\mu g/m^3$)	[3]Back-ground PM_{10} Level ($\mu g/m^3$)	[4]TOTAL PM_{10} Level ($\mu g/m^3$)
		0.0130					20.00	
		0.0130					20.00	
		0.0130					20.00	
		0.0130					20.00	
		0.0130					20.00	
		0.0130					20.00	
		0.0130					20.00	
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		0.0130					20.00	
		0.0130					20.00	
		0.0130					20.00	

Note 1: The Daily PM_{10} Impact ($\mu g/m^3$) for PORT-0497 is calculated by multiplying the Daily Production (tons) by the Ambient Impact Factor.
Note 2: The Daily PM_{10} Impact ($\mu g/m^3$) for other asphalt, concrete, or rock-crushing plant(s) owned by Doss & Harper Co., Inc. can be obtained from the operator(s) of these plant(s).
Note 3: Background PM_{10} Level ($\mu g/m^3$) is from Haul Roads and Stockpiles.
Note 4: The TOTAL PM_{10} Level ($\mu g/m^3$) is calculated by summing the Daily PM_{10} Ambient Impact(s) and the Background PM_{10} Level. A TOTAL PM_{10} Level of less than 150 $\mu g/m^3$ in any 24-hour period indicates compliance.

Attachment B: Daily Ambient PM_{10} Impact Tracking Record
Doss & Harper Stone Co., Inc. Portable ElJay Cone Plant, PORT-0497 – Portable Rock-Crushing Plant
Concurrent, Same and Separate Owner, Operation

Project Number: 2006-08-008
County, CSTR: Texas County (S17, T30N, R9W)
Primary Unit Size: 250 tph
Distance to Nearest Property Boundary: 1,500 feet

This sheet covers the period from _____ to _____ (Month, Day, Year) *(Copy this sheet as needed.)*

Date	Doss & Harper Stone Co., Inc. Portable ElJay Cone Plant PORT-0497 Project # 2006-08-008			Plant Name: Plant ID: Permit #:	Plant Name: Plant ID: Permit #:	Plant Name: Plant ID: Permit #:		
	Daily Production (tons)	Ambient Impact Factor ($\mu g/m^3$ton)	[1]Daily PM_{10} Impact ($\mu g/m^3$)	[2]Daily PM_{10} Impact ($\mu g/m^3$)	[2]Daily PM_{10} Impact ($\mu g/m^3$)	[2]Daily PM_{10} Impact ($\mu g/m^3$)	[3]Back-ground PM_{10} Level ($\mu g/m^3$)	[4]TOTAL PM_{10} Level ($\mu g/m^3$)
		0.0128					110.00	
		0.0128					110.00	
		0.0128					110.00	
		0.0128					110.00	
		0.0128					110.00	
		0.0128					110.00	
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		0.0128					110.00	
		0.0128					110.00	

Note 1: The Daily PM_{10} Impact ($\mu g/m^3$) for PORT-0497 is calculated by multiplying the Daily Production (tons) by the Ambient Impact Factor.
Note 2: The Daily PM_{10} Impact ($\mu g/m^3$) for other asphalt, concrete, or rock-crushing plant(s) owned by Doss & Harper Co., Inc. can be obtained from the operator(s) of these plant(s).
Note 3: Background PM_{10} Level ($\mu g/m^3$) is from Haul Roads and Stockpiles **AND** other asphalt, concrete, or rock-crushing plant(s) owned by other companies.
Note 4: The TOTAL PM_{10} Level ($\mu g/m^3$) is calculated by summing the Daily PM_{10} Ambient Impact(s) and the Background PM_{10} Level. A TOTAL PM_{10} Level of less than 150 $\mu g/m^3$ in any 24-hour period indicates compliance.

Attachment AA: Best Management Practices (BMPs)- Construction Industry Fugitive Emissions

Construction Industry Sites covered by the Interim Relief Policy shall maintain Best Management Control Practices (BMPs) for fugitive emission areas at their installations when in operation. Options for BMPs are at least one of the following:

For Haul Roads:

1. Pavement of Road Surfaces –
   - A. The operator(s) may pave all or any portion of the haul roads with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve "Control of Fugitive Emissions[1]" while the plant is operating.
   - B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
   - C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the haul road(s) as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. Usage of Chemical Dust Suppressants –
   - A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the unpaved portions of the haul roads. The suppressant will be applied in accordance with the manufacturer's suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
   - B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
   - C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

3. Usage of Documented Watering –
   - A. The operator(s) shall control the fugitive emissions from all the unpaved portions of the haul roads at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating. For example, the operator(s) shall calculate the total square feet of unpaved vehicle activity area requiring control on any particular day, divide that product by 1,000, and multiply the quotient by 100 gallons for that day.
   - B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operation (e.g., meteorological situations, precipitation events, freezing, etc.)
   - C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
   - D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
   - E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

[1] For purposes of this document, Control of Fugitive Emissions means to control particulate matter that is not collected by a capture system and visible emissions to the extent necessary to prevent violations of the air pollution law or regulation. (Note: control of visible emission is not the only factor to consider in protection of ambient air quality.)

For Vehicle Activity Areas around Open Storage Piles:

1. Pavement of Stockpile Vehicle Activity Surfaces –
   - A. The operator(s) may pave all or any portion of the vehicle activity areas around the storage piles with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve control of fugitive emissions while the plant is operating.
   - B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
   - C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. Usage of Chemical Dust Suppressants –
   - A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the vehicle activity areas around the open storage piles. The suppressant will be applied in accordance with the manufacturer's suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
   - B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
   - C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

3. Usage of Documented Watering –
   - A. The operator(s) shall control the fugitive emissions from all the vehicle activity areas around the storage piles at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating. (Refer to example for documented watering of haul roads.)
   - B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operations (e.g., meteorological situations, precipitation events, freezing, etc.)
   - C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
   - D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
   - E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

Mr. Wayne Ellett
Assistant Manager
Doss & Harper Stone Co., Inc.
P. O. Box 888
West Plains, MO 65775

RE: New Source Review Permit - Project Number: 2006-08-008

Dear Mr. Ellett:

Enclosed with this letter is your New Source Review permit. Please review your permit carefully and note the special conditions, if any, and the requirements in your permit.

Operation in accordance with the conditions and requirements in your permit, the New Source Review application submitted for project 2006-08-008, and your amended operating permit, if required, is necessary for continued compliance. Please review your amended operating permit, as it will contain all applicable requirements for your portable rock-crushing plant, including any special conditions from your New Source Review permit.

The section of the permit entitled "Technical Review of Application for Authority to Construct" should not be separated from the main portion of your permit. The entire permit must be retained in your files. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

If you have any questions regarding this permit, please do not hesitate to contact me at (573) 751-4817, or you may write to the Department of Natural Resources' Air Pollution Control Program, P.O. Box 176, Jefferson City, Missouri 65102. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall B. Hale, P. E.
New Source Review Unit Chief

KBH:cwyl

Enclosures

c: Southeast Regional Office
PAMS File: 2006-08-008
Permit Number: